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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1

of 12

Complete if Known

Application Number	10/669,954
Filing Date	Sept. 23, 2003
First Named Inventor	Anand P. Narayan
Art Unit	
Examiner Name	
Attorney Docket Number	TCOM-0007

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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		US- 4359738	11-16-1982	Lewis	
		US- 4665401	05-12-1987	Garrard et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
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		DE 4343959 A1	06-29-1995	Richard Hirschmann GmbH & Co		522068
		WO 93/12590	06-24-1995	Array-Comm, Inc.		522068
		GB 2280575 A	02-01-1995	Roke Manor Research Limited		522068
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
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U. S. PATENT DOCUMENTS

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						601437
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		Number-Kind Code ² (if known)			
		US- 6172969	01-09-2001	Kawakami et al.	
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		US- 6430216	08-06-2002	Kober et al.	
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		Application Number	10/669,954		
		Filing Date	Sept. 23, 2003		
		First Named Inventor	Anand P. Narayan		
		Art Unit			
		Examiner Name			
Sheet	9	of	12	Attorney Docket Number	TCOM-0007

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MITRA, ET AL., Adaptive Decorrelating Detectors for CDMA Systems, Accepted for Wireless Communications Journal, Accepted May 1995	
		SCHNEIDER, Optimum Detection of Code Division Multiplexed Signals, IEEE Transactions on Aerospace and Electronic Systems, Jan. 1979, Vol. AES-15 No. 1	12
		MITRA, ET AL., Adaptive Receiver Algorithms for Near-Far Resistant CDMA, IEEE Transactions of Communications, Apr. 1995	
		LUPAS, ET AL. Near-Far Resistance of Multiuser Detectors in Asynchronous Channels, IEEE Transactions on Communications, April 1990, Vol. 38, No. 4	
		LUPAS, ET AL., Linear Multiuser Detectors for Synchronous Code-Division Multiple-Access Channels, IEEE Transactions on Information Theory, Jan. 1989, Vol. 35, No. 1	
		KOHNO, ET AL., Cancellation Techniques of Co-Channel Interference in Asynchronous Spread Spectrum Multiple Access Systems, May 1983, Vol. J 56-A. No. 5	
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		BEHRENS ET AL., Parameter Estimation in the Presence of Low Rank Noise, pgs. 341-344, Maple Press, 1988	
		BEST, Phase-Locked Loops - Design, Simulation, and Applications, pgs. 251-287, McGraw-Hill, 1999	

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Sheet

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of

12

Complete if Known

Application Number

10/669,954

Filing Date

Sept. 23, 2003

First Named Inventor

Anand P. Narayan

Art Unit

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		RAPPAPORT, Wireless Communications - Principles & Practice, 1996, pgs. 518-533, Prentice Hall, Upper Saddle River, NJ, US	12
		SCHARF, ET AL., Matched Subspace Detectors, IEEE Transactions on Signal Processing, Aug. 1994, Vol. 42, No. 8.	
		PRICE ET AL., A Communication Technique for Multipath Channels, Proceedings to the IRE, 1958, Vol. 46, The Institute of Radio Engineers, New York, NY, US	
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		SCHLEGEL ET AL., Coded Asynchronous CDMA and Its Efficient Detection, IEEE Transactions on Information Theory, Nov. 1998, Vol. 44, No. 7	
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		VITERBI, Very Low Rate Convolutional Codes for Maximum Theoretical Performance of Spread Spectrum Multiple-Access Channels, IEEE Journal on Selected Areas in Communications, May 1990, Vol. 8, No. 4	
		VITERBI, CDMA - Principles of Spread Spectrum Communication, 1995, pgs. 11-75 and 179-233, Addison-Wesley, Reading, MA, US	
		VERDU, Minimum Probability of Error for Asynchronous Gaussian Multiple-Access Channels, IEEE Transactions on Information Theory, Jan. 1986, Vol. IT-32, No. 1	

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		Art Unit	
		Examiner Name	
Sheet 11 of 12	Attorney Docket Number	TCOM-0007	

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		KAPLAN, Understanding GPS - Principles and Applications, 1996, pgs. 83-236, Artech House, Norwood, MA, US	
		SCHARF, Statistical Signal Processing - Detection, Estimation, and Time Series Analysis, 1990, pgs. 23-75 and 103-178, Addison-Wesley, Reading, MA, US	12
		STIMSON, Introduction to Airborne Radar 2nd edition, 1998, pgs. 163-176 and 473-491, SciTech Publishing, Mendham, NJ, US	
		BEHRENS ET AL., Signal Processing Applications of Oblique Projection Operators, IEEE Transactions on Signal Processing, Jun. 1994, Vol. 42, No. 6	
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		FRANKEL ET AL., High-performance photonic analogue digital converter, Electronic Letters, Dec. 4, 1997, Vol. 33, No. 25	
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		THOMAS, Thesis for the Doctor of Philosophy Degree, UMI Dissertation Services, Jun. 1996, Ann Arbor, MI, US	
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